



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Governor

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6015

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Indianapolis, Indiana 46206-

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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

W.C. Hargis and Son, Inc. (Portable)

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F021-15719-05158	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: August 22, 2002



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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a portable asphalt plant.

Authorized individual:	Warren Artz
Initial Source Address:	806 West Hendrix, Brazil, Indiana 47834 (Current)
Mailing Address:	1000 North Tenth Street, P.O. Box 351, Terre Haute, Indiana 47808-0351
SIC Code:	2951
Initial Source Location Status:	Clay County
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP)
	Minor Source, under PSD;
	Minor Source, Section 112 of the Clean Air Act
	Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This portable source consists of the following emission units and pollution control devices:

- (a) One (1) drum-mix asphalt plant, with a maximum capacity 130 tons per hour, having one (1) No. 4 fuel oil fired burner with a maximum heat input rate of 69 MMBtu/hr, using No.2 fuel oil as back-up fuel and a wet scrubber as control, exhausting to stack 001.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This portable source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; including one (1) No. 2 fuel oil storage tank, with a maximum capacity of 1,000 gallons.
- (b) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs; including; one (1) No. 4 fuel oil storage tank, with a maximum capacity of 10,000 gallons.

A.4 FESOP Applicability [326 IAC 2-8-2]

This portable source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deletedby this permit.
- (b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required

to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAQ, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the plan submitted on September 15, 1997. The plan consists of wet suppression of dust from unpaved roadways conveying/handling operations and storage piles.

C.7 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a flow rate or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
- (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on September 15, 1998.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
- (c) A verification to IDEM, OAQ, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68 on September 15, 1998.

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected time frame for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.

- (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.18 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

- (a) Permittees located or relocated in Clark, Elkhart, Floyd, Lake, Marion, Porter, St. Joseph and Vanderburgh counties as specified in 326 IAC 2-6-1 shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2 (8) (Emission Statement Operating Year). The annual statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Portable Source Requirement

C.21 Relocation of Portable Sources [326 IAC 2-14-4]

- (a) This permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas were Lake and Porter Counties). This determination is based on the requirements for Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAQ and a "Relocation Site Approval" letter must be obtained before relocating. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The Permittee shall also notify the applicable local air pollution control agency when relocating to or from one of the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Division of Air Pollution)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Air Pollution Control Agency)
 - (6) St. Joseph County - (St. Joseph County Health Department)
 - (7) Vigo County - (Vigo County Air Pollution Department)
- (c) A valid operation permit consists of this document and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Stratospheric Ozone Protection

C.22 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) drum-mix asphalt plant, with a maximum capacity 130 tons per hour, having one (1) No. 4 fuel oil fired burner with a maximum heat input rate of 69 MMBtu/hr, using No.2 fuel oil as back-up fuel and a wet scrubber as control, exhausting to stack 001.

Insignificant Activities:

- (a) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; including one (1) No. 2 fuel oil storage tank, with a maximum capacity of 1,000 gallons.
- (b) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs; including; one (1) No. 4 fuel oil storage tank, with a maximum capacity of 10,000 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 FESOP Limitations [326 IAC 2-8-4] [326 IAC 2-2][326 IAC 2-3] [40 CFR 52.21]

Pursuant to 2-8-4 (FESOP):

- (a) The PM₁₀ emissions from the drum-mix asphalt plant shall not exceed 2.77 pounds per hour. This is equivalent to 12.1 tons per year of PM₁₀ emissions. Combined with the PM₁₀ emissions from the insignificant activities, the PM₁₀ emissions from the entire source are limited to less than 100 tons per year.
- (b) The total No.4 fuel oil usage for this drum-mix asphalt plant shall be limited to 2,600,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month and the sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. For the purposes of determining compliance with this limit, one gallon of No. 2 fuel oil shall be considered equivalent to 0.99 gallons of No. 4 fuel oil. These limits are equivalent to SO₂ emissions of 97.5 tons per year and the SO₂ emissions for the entire source are limited to less than 100 tons per year.
- (c) Pursuant to 326 IAC 2-8-4, the VOC solvent used as diluent in the liquid binder used in cold mix asphalt production from the plant shall be limited such that no more than 99.0 tons of VOC emissions are emitted per twelve (12) consecutive month period with compliance determined at the end of each month. This shall be achieved by limiting the total VOC solvent of any one selected binder to not exceed the stated limit in (2) for that binder during the last twelve (12) months. When more than one binder is used, the formula in (2)(F) must be applied so that the total VOC emitted does not exceed 99.0 tons per twelve (12) consecutive month period.

- (1) Liquid binders used in the production of cold mix asphalt shall be defined as follows:

- (A) Cut back asphalt rapid cure, containing a maximum of 25.3% of the liquid binder by weight of VOC solvent and 95% by weight of VOC solvent evaporating.
 - (B) Cut back asphalt medium cure, containing a maximum of 28.6% of the liquid binder by weight of VOC solvent and 70% by weight of VOC solvent evaporating.
 - (C) Cut back asphalt slow cure, containing a maximum of 20% of the liquid binder by weight of VOC solvent and 25% by weight of VOC solvent evaporating.
 - (D) Emulsified asphalt with solvent, containing a maximum of 15% of liquid binder by weight of VOC solvent and 46.4% by weight of the VOC solvent in the liquid blend evaporating. The percent oil distillate in emulsified asphalt with solvent liquid, as determined by ASTM, must be 7% or less of the total emulsion by volume
 - (E) Other asphalt with solvent binder, containing a maximum 25.9% of the liquid binder of VOC solvent and 2.5% by weight of the VOC solvent evaporating
- (2) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (A) Cutback asphalt rapid cure liquid binder usage shall not exceed 99.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (B) Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (C) Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (D) Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (E) Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (F) The VOC solvent allotments in subpart (c)(1) through (c)(5) of this condition shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	

Type of Binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Medium Cure		1.36	
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

Therefore, the PM₁₀, SO₂, and VOC emissions from the entire source are limited to less than Title V the major source thresholds. Therefore, 326 IAC 2-7, 326 IAC 2-2 and 326 IAC 2-3 are not applicable.

D.1.2 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 12-1, apply to the asphalt plant except when otherwise specified in 40 CFR Part 60, Subpart I.

D.1.3 Particulate Matter (PM)[40 CFR 60, Subpart I] [326 IAC 12-1]

Pursuant to 40 CFR 60, Subpart I:

- (a) particulate matter emissions from the asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), and
- (b) the visible emissions from the plant shall not exceed 20 percent opacity.

D.1.4 Particulate Matter (PM) [326 IAC 6-1-2] [326 IAC 2-2] [326 IAC 2-3] [40 CFR 52.21]

Pursuant to 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). This is equivalent to a particulate matter emission rate of 2.77 pounds per hour and 12.1 tons per year. Compliance with this requirement ensures compliance with Condition D.1.3 and makes 326 IAC 2-2 (PSD), 40 CFR 52.21, and 326 IAC 2-3 (Emission Offset) not applicable.

D.1.5 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-2]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations), the SO₂ emissions from the drum-mix asphalt plant shall not exceed five-tenths (0.5) pound per million Btu heat input while combusting fuel oil.

D.1.6 Volatile Organic Compounds (VOCs) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2 (Asphalt Paving), no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

D.1.7 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.1.8 PM and PM10 Emissions

In order to comply with Conditions D.1.1(a), D.1.3, and D.1.4, the scrubber equipped with the drum-mix asphalt plant for PM and PM10 control shall be in operation and control emissions from the asphalt plant at all times that the drum-mix asphalt plant is in operation.

D.1.9 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.1.1(a), D.1.3, and D.1.4, the Permittee shall perform PM and PM10 testing before October 18, 2005 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM10 includes filterable and condensable PM10. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.10 Sulfur Dioxide (SO₂) Emissions

Compliance with Condition D.1.1 (b) shall be determined within 30 days of the end of each month based on the total fuel usage for the most recent twelve (12) month period.

D.1.11 Sulfur Dioxide (SO₂) Emissions and Sulfur Content

Compliance with Conditions D.1.1(b) and D.1.5 shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million Btu heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 69 MMBtu per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the burner stack, the transfer points, and the conveyor exhausts shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the

operation that would normally be expected to cause the greatest emissions.

- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.13 Parametric Monitoring

The Permittee shall monitor and record the pH, pressure drop, and flow rate for the scrubber used in conjunction with the drum-mix asphalt plant, at least once per shift when the associated drum-mix asphalt plant is in operation. When for any one reading, the pressure drop across any of the scrubbers is outside the normal range of 15.0 and 25.0 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Implementation, Preparation, Records, and Reports. When for any one reading, the flow rate is than the normal minimum of 100 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. When for any one reading, the acid content of any of the scrubbers is above the normal maximum pH level of 6.0, or an acid content established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Implementation, Preparation, Records, and Reports. A pressure reading that is outside the above mention range, a flow rate that is below the above mentioned minimum, or an acid content above the above mentioned maximum is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

The instruments used for determining the pressure, flow rate, and pH level shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.14 Scrubber Inspections

An inspection shall be performed within the last month of each calendar quarter of the scrubber controlling the drum-mix asphalt plant.

D.1.15 Failure Detection

In the event that a scrubber malfunction has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.16 Record Keeping Requirements

- (a) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the burner stack, the transfer points, and the conveyor exhausts.
- (b) To document compliance with Condition D.1.13, the Permittee shall maintain records of the following operational parameters for the scrubber once per shift during normal operation:

- (1) pressure drop;
 - (2) flow rate; and
 - (3) acid content (pH level).
- (c) To document compliance with Condition D.1.14, the Permittee shall maintain records of the results of the inspections required under Condition D.1.14 and the dates the vents are redirected.
- (d) To document compliance with Conditions D.1.1(b) and D.1.5, the Permittee shall maintain records in accordance with (1) through (6) below.
- (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions; and
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period.

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (e) To document compliance with Condition D.1.1(c), the Permittee shall maintain records in accordance with (1) through (3) below.
- (1) Amount and type of liquid binder used in the production of cold mix asphalt each month;
 - (2) Type and VOC, solvent content by weight of the liquid binder used in the production of cold mix asphalt each month; and
 - (3) Amount of VOC, solvent used in the production of cold mix asphalt each month.

Records may include: delivery tickets, manufacturer's data, material safety data sheets (MSDS), and other documents necessary to verify the type and amount used. Test results of ASTM tests for asphalt cutback and asphalt emulsion may be used to document volatilization.

- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.17 Volatile Organic Compounds (VOC) [326 IAC 8-9]

Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), the owner or operator of a stationary

vessel with a capacity of less than thirty-nine thousand (39,000) gallons shall maintain a record and submit to the department a report containing the following information on the vessel:

- (a) The vessel identification number.
- (b) The vessel dimensions.
- (c) The vessel capacity.
- (d) A description of the emission control equipment for each vessel described in 326 IAC 8-9-4 (a) and 4 (b), applicable, or a schedule for installation of emission control equipment on vessels described in 326 IAC 8-9-4(a) and 4 (b), if applicable, with a certification that the emission control equipment meets the applicable standards.

The owner or operator of a stationary vessel shall keep all records as described for the life of the vessel.

D.1.18 Reporting Requirements

A quarterly summary of the information to document compliance with the fuel usage limit in Condition D.1.1(b) and the VOC limit in D.1.1(c) shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: W. C. Hargis and Son, Inc.
Initial Source Address: 806 W. Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 North Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: 021-15719-05158

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

9 Annual Compliance Certification Letter

9 Test Result (specify) _____

9 Report (specify) _____

9 Notification (specify) _____

9 Affidavit (specify) _____

9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: W.C. Hargis and Son, Inc.
Initial Source Address: 806 West Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 North Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: 021-15719-05158

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

FESOP Quarterly Report

Source Name: W.C. Hargis and Son, Inc.
Initial Source Address: 806 West Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 North Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: F021-15719-05158
Facility: The drum-mix asphalt plant
Parameter: No. 4 fuel oil usage
Limit: Less than 2,600,000 gallons of No. 4 fuel oil or fuel oil equivalent per twelve (12) consecutive month period.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

Note: 1 gallon No. 2 fuel oil usage = 0.99 gallons of No. 4 fuel oil usage.

- 9 No deviation occurred in this quarter.
- 9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: W.C. Hargis and Son, Inc.
Initial Source Address: 806 West Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 N. Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: 021-15719-05158

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Single Liquid Binder Solvent Quarterly Report

Source Name: W.C. Hargis and Son, Inc.
Initial Source Address: 806 West Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 N. Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: 021-15719-05158
Facility: Asphalt Plant
Parameter: VOC
Limit: Cutback asphalt rapid cure liquid binder usage shall not exceed 99.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month. Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.

YEAR: _____

The following liquid binder solvent was the only liquid binder solvent used over the previous 12 month period: _____ Limit applicable: _____

(use of more than one binder requires the use of the "Multiple Liquid Binder Solvents" report form)

Month	Column 1	Column 2	Column 1 + Column 2
	This Month (tons)	Previous 11 Months (tons)	12 Month Total (tons)
Month 1			
Month 2			
Month 3			

- 9 No deviation occurred in this reporting period.
9 Deviation/s occurred in this reporting period.

Deviation has been reported on: _____

Submitted by: _____

Date: _____

Title / Position: _____

Signature: _____

Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Multiple Liquid Binder Solvent Quarterly Report

Source Name: W.C. Hargis and Son, Inc.
Initial Source Address: 806 West Hendrix, Brazil, Indiana 47834
Mailing Address: 1000 N. Tenth Street, P. O. Box 351, Terre Haute, Indiana 47808-0351
FESOP No.: 021-15719-05158
Facility: Asphalt Plant
Parameter: VOC
Limit:: 99.0 tons per twelve (12) consecutive month period.

Year:

Month	Type of Liquid binder	Solvent Usage This Month (tons)	Divisor	VOC emitted This Month (tons) for each solvent	VOC emitted This Month (tons)	VOC emitted Previous 11 Months (tons)	This month + Previous 11months =VOC emitted 12 Month Total (tons)
Month 1	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 2	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				
Month 3	Cutback asphalt rapid cure		1				
	Cutback asphalt medium cure		1.36				
	Cutback asphalt slow cure		3.8				
	Emulsified asphalt		2.04				
	other asphalt		38				

9 No deviation occurred in this reporting period.
9 Deviation/s occurred in this reporting period.
Deviation has been reported on: _____

Submitted by: _____ Date: _____
Title / Position: _____ Phone: _____
Signature: _____

Attach a signed certification to complete this report.

August 22, 2002

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP) Renewal**

Source Background and Description

Source Name: W.C. Hargis and Son, Inc.
Source Location: 806 West Hendrix, Brazil, IN 47834 (Current)
County: Clay County
SIC Code: 2951
Operation Permit No.: 021-15719-05158
Permit Reviewer: ERG/YC

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from W.C. Hargis and Son, Inc. relating to the operation of a portable drum-mix asphalt plant. W.C. Hargis and Son, Inc. was issued FESOP 021-8976-05158 on December 17, 1997.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) drum-mix asphalt plant, with a maximum capacity 130 tons per hour, having one (1) No. 4 fuel oil fired burner with a maximum heat input rate of 69 MMBtu/hr, using No.2 fuel oil as back-up fuel and a wet scrubber as control, exhausting to stack 001.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving New Source Review Approval

There are no new emission units and pollution control equipment receiving advanced source modification at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons; including one (1) No. 2 fuel oil storage tank, with a maximum capacity of 1,000 gallons.
- (b) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or

three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs; including one (1) No. 4 fuel oil storage tank, with a maximum capacity of 10,000 gallons.

Existing Approvals

- (a) FESOP 021-8976-05158, issued on December 17, 1997, and

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) FESOP 021-8976-05158, issued on December 17, 1997:

In order to limit the SO₂ emissions from the entire source to less than 100 tons per year, Conditions D.1.5(c) limited the No. 4 fuel oil usage to less than 2,738,514.16 gallons per year, pursuant to 326 IAC 2-8-4(FESOP).

Changes to original conditions:

According to AP-42, Chapter 1.3, the SO₂ emission factor for combusting No. 4 fuel oil is 75 pounds per gallon when the sulfur content of the fuel oil is 0.5% by weight. Therefore, the limit of 2,738,514.16 gallons per year fuel oil usage is equivalent to 102.7 tons per year of SO₂ emissions, which is above the major source threshold. Therefore, this fuel usage limit shall be corrected to 2,600,000 gallons per twelve (12) consecutive month period, which is equivalent to 97.5 tons per year of SO₂ emissions.

- (b) FESOP 021-8976-05158, issued on December 17, 1997:

Condition D.1.11 required visible emission notations of the exhaust stacks be taken daily, and Condition D.1.12 required parametric monitoring be conducted on a daily basis.

Changes to original conditions:

In accordance with IDEM policy, the frequency of the visible emission notations and parametric monitoring have been changed from "daily" to "once per shift" to ensure continuous compliance with 326 IAC 5, 326 IAC 6, and NSPS.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on March 18, 2002. Additional information was received on April 25, 2002.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 5).

The VOC emissions from the cold mix asphalt production are determined by the following equation:

$$\text{Potential VOC emissions} = \text{maximum liquid binder usage (ton/hr)} \\ \times \text{VOC content (weight \%)} \times 8,760 \text{ hr/yr}$$

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	15,983.3
PM-10	3,726.2
SO ₂	161.9
VOC	>250
CO	10.8
NO _x	43.2

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Unrestricted Potential Emissions (tons/yr)
Lead	0.3
Formaldehyde	5.7
TOTAL	6.0

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM₁₀, SO₂, and VOC are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Pursuant to 326 IAC 2-8, this source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict PTE to below Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP).
- (c) Fugitive Emissions
This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, however, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on December 17, 1997, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has

not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP (F021-8976-05158 issued on December 17, 1997).

	Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Drum Mixer/Dryer	Less than 12.1	Less than 12.1	-	Less than 99	-	-	6.0
Combustion in the Burner	11.1	11.1	Less than 97.5	0.4	6.5	26.0	Negligible
Conveying and Handling	4.2	1.5	-	-	-	-	-
Unpaved Roads (Fugitive Emissions)	17.5	5.2	-	-	-	-	-
*Storage Tanks (Insignificant Units)	-	-	-	0.18	-	-	Negligible
Total Emissions	Less than 44.9	Less than 29.9	Less than 97.5	Less than 100	6.5	26.0	6.0

* The potential to emit of the storage tanks is from the Technical Support Document (TSD) for FESOP 021-8976-05158, issued on December 17, 1997.

County Attainment Status

The source is initially located in Clay County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

This 130 ton per hour asphalt plant is a portable source initially located in Clay County. As a portable source, the plant can be located in both attainment and nonattainment areas excluding the severe ozone nonattainment areas of Lake and Porter Counties.

Therefore, the criteria pollutant emissions, including volatile organic compounds (VOC), which are the precursor pollutants considered when evaluating rule applicability relating to the ozone standards, were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21, and the requirements for Emission Offset, 326 IAC 2-3.

Portable Source

- (a) Location
This is a portable source and its current location is 806 West Hendrix, Brazil, Indiana 47834.
- (b) PSD and Emission Offset Requirements

The emissions from this portable source were reviewed under the requirements of the Prevention of Significant Deterioration (PSD), 326 IAC 2-2, 40 CFR 52.21, and Emission Offset, 326 IAC 2-3.

- (c) **Fugitive Emissions**
This type of operation is not one of the twenty-eight (28) listed sources under 326 IAC 2-2, however, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward determination of PSD and Emission Offset applicability.
- (d) **Relocation of Portable Plant**
This proposed permit is approved for operation in all areas of Indiana except in severe nonattainment areas for ozone (at the time of this permit's issuance these areas are Lake and Porter Counties). This determination is based on the requirements Prevention of Significant Deterioration in 326 IAC 2-2 and 40 CFR 52.21, and Emission Offset requirements in 326 IAC 2-3. A thirty (30) day advance notice of relocation must be given to IDEM, OAQ and a "Relocation Site Approval" letter must be obtained before relocating. The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) **Notification of Relocation**
The Permittee shall also notify the applicable local air pollution control agency when relocating to or from one of the following:
 - (1) Madison County - (Anderson Office of Air Management)
 - (2) City of Evansville plus four (4) miles beyond the corporate limits but not outside Vanderburgh County - (Evansville EPA)
 - (3) City of Gary - (Gary Division of Air Pollution)
 - (4) City of Hammond - (Hammond Department of Environmental Management)
 - (5) Marion County - (Indianapolis Air Pollution Control Agency)
 - (6) St. Joseph County - (St. Joseph County Health Department)
 - (7) Vigo County - (Vigo County Air Pollution Department)
- (f) **Valid Operation Permit**
A valid operation permit consists of the permit (F021-15719-05158) and any subsequent "Relocation Site Approval" letter specifying the current location of the portable plant.

Federal Rule Applicability

- (a) This asphalt plant is subject to the New Source Performance Standard for Hot Mix Asphalt Facilities (40 CFR 60.90 - 60.93, Subpart I), because it was constructed in 1984 which is after June 11, 1973, the applicability date for this rule. Pursuant to 40 CFR 60.90, Subpart I, the particulate matter emissions from this asphalt plant shall not exceed 0.04 grains per dry standard cubic foot (gr/dscf), which is equivalent to 3.7 lbs/hr, and the visible emissions from the asphalt plant shall not exceed 20 percent opacity.

- (b) The fuel oil storage tanks have capacities less than 40 cubic meters (10,560 gallons). Therefore, the New Source Performance Standards for Volatile Organic Liquid Storage Vessels for which construction, reconstruction, or modification commenced after July 23, 1984 (40 CFR 60.110b - 117b, Subpart Kb) are not applicable to this source.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset)

The potential to emit PM, PM10 and VOC are all greater than 250 tons per year and the potential to emit SO₂ is greater than 100 tons per year. However, the source has agreed to limit the amount of fuel oil burned such that the SO₂ emissions are less than 100 tons per year and to limit the VOC content and usage such that the VOC emissions are less than 100 tons per year. In addition to these limits, the source will use a scrubber to control emissions of PM and PM10 from the asphalt plant. The use of the scrubber will ensure that the PM and PM10 emissions are less than 100 tons per year. Hence, the following requirements have been included in the permit.

- (a) Pursuant to 40 CFR 60.90, Subpart I, the PM emissions from the asphalt plant shall be limited to 0.04 grains per dry standard cubic foot. This is equivalent to a particulate matter emission rate of 2.77 pounds per hour at an exhaust flow rate of 13,330 cubic feet per minute (cfm), and is equivalent to 12.1 tons per year of PM emissions. Combined with the PM emissions from the insignificant activities and the fugitive emissions, the PM emissions from the entire source are limited to less than 250 tons per year. Use of the wet scrubber ensures compliance with this limit.
- (b) Pursuant to 326 IAC 2-8 (FESOP), the PM10, VOC, and SO₂ emissions are limited to less than 100 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (c) This source is not allowed to operate in severe nonattainment areas (currently Lake and Porter Counties).

Therefore, the requirements of 326 IAC 2-2 (PSD) (40 CFR 52.21) and 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 2-4.1 (New Sources of Hazardous Air Pollutants)

The source was constructed prior to July 27, 1997 and the HAP emissions from the entire source are less than the major source thresholds. Therefore, the requirements of 326 IAC 2-4.1 do not apply.

326 IAC 2-8-4 (FESOP)

Pursuant to 326 IAC 2-8-4:

- (a) The PM10 emissions from the drum-mix asphalt plant shall not exceed 2.77 pounds per hour. This is equivalent to 12.1 tons per year of PM10 emissions. Combined with the PM10 emissions from the insignificant sources, the PM10 emissions from the entire source are limited to less than 100 tons per year.

According to the stack tests conducted on October 18, and October 24, 2002, the PM10 emissions from this drum-mix asphalt plant is 2.25 lbs/hr after the control of the wet scrubber. Therefore, this drum-mix asphalt plant is in compliance with this FESOP limit.

- (b) The total No.4 fuel oil usage for the drum-mix asphalt plant shall be limited to 2,600,000 gallons per twelve (12) consecutive month period with compliance determined at the end of each month and the sulfur content of the No. 4 and No. 2 fuel oil shall not exceed 0.5% by weight. For the purpose of determining compliance with this limit, one gallon of No.2 fuel oil shall be considered equivalent to 0.99 gallons of No.4 fuel oil. This is equivalent to SO₂ emissions of 97.5 tons per year and the SO₂ emissions for the entire source is limited to less than 100 tons per year.
- (c) The liquid binder used in cold mix asphalt production shall be limited as follows:
- (1) Cutback asphalt rapid cure liquid binder usage shall not exceed 99.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (2) Cutback asphalt medium cure liquid binder usage shall not exceed 134.6 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (3) Cutback asphalt slow cure liquid binder usage shall not exceed 376.2 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (4) Emulsified asphalt with solvent liquid binder usage shall not exceed 202.0 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (5) Other asphalt with solvent liquid binder shall not exceed 3,762 tons of VOC solvent per twelve (12) consecutive month period with compliance determined at the end of each month.
 - (6) The VOC solvent allotments in (1) through (5) above shall be adjusted when more than one type of binder is used per twelve (12) month consecutive period with compliance determined at the end of each month. In order to determine the tons of VOC emitted per each type of binder, use the following formula and divide the tons of VOC solvent used for each type of binder by the corresponding adjustment ratio listed in the table that follows.

$$\frac{\text{Tons of solvent contained in binder}}{\text{Adjustment ratio}} = \text{tons of VOC emitted}$$

Type of binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Rapid Cure		1	
Cutback Asphalt Medium Cure		1.36	

Type of binder	Tons VOC Solvent	Adjustment Ratio	Tons VOC Emitted
Cutback Asphalt Slow Cure		3.8	
Emulsified Asphalt		2.04	
Other Asphalt		38	

The equivalent total tons of VOC of the combined liquid binders shall be less than 99.0 tons per twelve consecutive month period with compliance determined at the end of each month.

Therefore, the requirements of 326 IAC 2-7 (Part 70), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offsets) are not applicable.

326 IAC 6-4 (Fugitive Dust Emissions)

This source consists of unpaved roads and stockpiles of aggregate, which have the potential to generate fugitive dust that may escape beyond the property line or boundaries of the property. Hence, this source is subject to the provisions of 326 IAC 6-4. Pursuant to 326 IAC 6-4, the source shall not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 6-5 (Fugitive Particulate Emissions Limitations)

This source did not receive all the necessary preconstruction approvals before December 13, 1985. Therefore, pursuant to 326 IAC 6-5-1(b), fugitive particulate matter emissions shall be controlled according to the control plan submitted on September 15, 1997, which consists of the wet suppression of dust from unpaved roadways, conveying/handling operations, and storage pipes.

326 IAC 2-6 (Emission Reporting)

Sources located or relocated in Clark, Elkhart, Floyd, Lake, Marion, Porter, St. Joseph and Vanderburgh Counties with a potential to emit VOC and/or NO_x of greater than ten (10) tons per year are subject to the emission reporting requirements in 326 IAC 2-6. Although, this proposed permit specifically prohibits relocation to Lake and Porter Counties, this source is allowed to relocate to any of the other counties indicated above and has potential VOC and NO_x emissions that are greater than ten (10) tons per year. Therefore, this source is subject to the emission reporting requirements in 326 IAC 2-6. The annual emission statement must be certified by the Permittee, received by IDEM by April 15 of each year, and include the minimum requirements specified in 326 IAC 2-6-4. The report should cover the period defined in 326 IAC 2-6-2 (8) (Emission Statement Operating Year).

326 IAC 5-1 (Opacity Limitations)

As a portable source which can be located in all counties except Lake and Porter, and pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following requirements:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9

or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-1-2 (a)(PM Emission Limits for the General Source)

Since the potential to emit PM from this source is greater than 100 tons/yr and the source may relocate to Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne County, the source is subject to 326 IAC 6-1-2(a). Pursuant to 326 IAC 6-1-2(a), particulate matter (PM) emissions from the drum-mix dryer shall be limited to 0.03 grains per dry standard cubic foot (gr/dscf). This is equivalent to 2.77 pounds per hour at an exhaust flow rate of 13,330 acfm and 12.1 tons per year of PM emissions.

According to the stack tests conducted on October 18, and October 24, 2002, the PM emissions from this drum-mix asphalt plant is 0.004 gr/dscf, which is equivalent to 0.42 lbs/hr. Therefore, this drum-mix asphalt plant is in compliance with 326 IAC 6-3-2.

326 IAC 6-3-2 (Process Operations)

The particulate matter for process operations are not applicable to this source because the PM limitations have been established by 326 IAC 12 (NSPS).

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

The potential to emit SO₂ from the asphalt drum-mix dryer is greater than 25 tons per year. Pursuant to 326 IAC 7-1.1-2(3), the SO₂ emissions from the asphalt drum-mix dryer shall not exceed five-tenths (0.5) pound per million Btu heat input while burning fuel oil.

326 IAC 8-5-2 (Asphalt Paving)

This source was constructed after July 1, 1980 and is able to use cutback asphalt or asphalt emulsion. Pursuant to 326 IAC 8-5-2 (Asphalt Paving), no person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion of any paving application except:

- (a) Penetrating prime coating;
- (b) Stockpile storage; and
- (c) Application during the months of November, December, January, February, and March.

State Rule Applicability - Insignificant Activities

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

Since this source is portable and may relocate to Clark or Floyd County, the insignificant storage tanks are subject to the requirements of 326 IAC 8-9-1. Since the capacities of these storage tanks are each less than 39,000 gallons, the tanks are only subject to the reporting and record keeping requirements of the rule provided in 326 IAC 8-9-6 (a) and (b).

Testing Requirements

Since PM and PM₁₀ are the major pollutants from the source, the Permittee shall perform PM and PM₁₀ testing on the exhaust from the scrubber controlling the particulate emissions from the drum-mix asphalt plant. The tests shall be conducted using methods as approved by the Commissioner. PM₁₀ includes filterable and condensable PM₁₀.

This testing is required under 326 IAC 2-8-5(a)(1), because the source will use the scrubber to comply with 326 IAC 2-8 (FESOP), and 40 CFR 60.90, Subpart I (326 IAC 12 (NSPS)).

Stack tests were conducted on October 18, and October 24, 2000 and the results show that the source is in compliance with the PM and PM10 emission limits established in FESOP 021-8976-05158, issued on December 17, 1997. In accordance with IDEM policy, the tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

1. The drum-mix asphalt plant have applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the burner stack, the transfer points, and the conveyer exhausts shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
 - (b) The Permittee shall monitor and record the pH, pressure drop, and flow rate for the scrubber used in conjunction with the drum-mix asphalt plant, at least once per shift when the associated drum-mix asphalt plant is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the scrubber shall be maintained within the range of 15.0 to 25.0 inches of water, the flow rate shall be maintained above the normal minimum 100 gallons per minute, the pH shall be maintained below the normal maximum pH level of 6.0 all levels determined during the latest compliant stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside the above mention

range, the flow rate is below the above mentioned minimum, or a pH value is greater than the above mentioned maximum.

- (c) An inspection shall be performed within the last month of each calendar quarter of the scrubber controlling the drum-mix asphalt plant. Inspections are optional when venting to the indoors. In the event that a scrubber malfunction has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the scrubber for the drum-mix asphalt plant must operate properly to ensure compliance with 326 IAC 6-1-2, 326 IAC 6-3 (Process Operations), 326 IAC 2-8 (FESOP), 326 IAC 12(NSPS), and 40 CFR 60.90, Subpart I.

Conclusion

The operation of this portable asphalt shall be subject to the conditions of the attached (FESOP No.: F021-15719-05158).

Appendix A: Emission Calculations
Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)
#4 Fuel Oil
From the Drum Mixer/Dryer

Company Name: W.C. Hargis and Son, Inc.
Address City IN Zip: 806 West Hendrix, Brazil, IN 47834
FESOP: 021-15719-05158
Reviewer: ERG/YC
Date: March 24, 2002

1. Potential Emissions While Burning No. 4 Fuel Oil:

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
69.0	4317.4	0.5

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO ₂	NO _x	VOC	CO
	8.5	8.5	75 (150.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	18.35	18.35	161.90	43.17	0.73	10.79

*PM and PM10 emission factors are condensable and filterable PM10 combined.

Methodology

1 gallon of No. 4 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-04) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

2. Potential to Emit with Fuel Usage Limit:

Heat Input Capacity MMBtu/hr	Usage Limit kgals/year	S = Weight % Sulfur
69.0	2600	0.5

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO ₂	NO _x	VOC	CO
	8.5	8.5	75 (150.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	11.05	11.05	97.50	26.00	0.44	6.50

*PM and PM10 emission factors are condensable and filterable PM10 combined.

Methodology

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-04) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Appendix A: Emission Calculations
Commercial/Institutional/Residential Combustors (< 100 MMBtu/hr)
#2 Fuel Oil (back-up fuel)
From the Drum Mixer/Dryer

Company Name: W.C. Hargis and Son, Inc.
Address City IN Zip: 806 West Hendrix, Brazil, IN 47834
FESOP: 021-15719-05158
Reviewer: ERG/YC
Date: March 24, 2002

1. Potential Emissions While Burning No. 2 Fuel Oil:

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur
69.0	4317.4	0.5

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO ₂	NO _x	VOC	CO
	3.3	3.3	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	7.12	7.12	153.27	43.17	0.73	10.79

*PM and PM10 emission factors are condensable and filterable PM10 combined.

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.140 MMBtu

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

2. Potential to Emit with Fuel Usage Limit:

Usage Limit: 2,600,000 gal/yr No. 4 fuel oil
 and 1 gallon No. 2 fuel oil usage = 0.99 gallon No. 4 fuel oil usage

Therefore, No. 2 fuel oil usage limit = 2,600,000 gal/yr / 0.99 No.4./No.2 = **2,626,263 gal/yr**

Heat Input Capacity MMBtu/hr	Usage Limit kgals/year	S = Weight % Sulfur
69.0	2626	0.5

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO ₂	NO _x	VOC	CO
	3.3	3.3	71 (142.0 S)	20.0	0.34	5.0
Potential Emission in tons/yr	4.33	4.33	93.23	26.26	0.45	6.57

*PM and PM10 emission factors are condensable and filterable PM10 combined.

Methodology

Emission Factors are from AP-42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see errata file)

Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal)/2,000 lb/ton

**Appendix A: Emission Calculations
Potential Emissions
From the Drum Mixer/Dryer**

**Company Name: W.C. Hargis and Son, Inc.
Address City IN Zip: 806 West Hendrix, Brazil, IN 47834
FESOP: 021-15719-05158
Reviewer: ERG/YC
Date: March 24, 2002**

1. Uncontrolled Potential Emissions from the Mixer/Dryer:

Throughput Rate
tons/hr

130.0

	Pollutant				
Emission Factor in lb/ton	PM 28	PM10 6.5	VOC 0.032	Lead 0.00054	Total HAP 0.01
Potential Emission in tons/yr	15943.2	3701.1	18.2	0.3	5.7

Methodology

Emission Factors from AP-42, Chapter 11.1, Tables 11.1-3, 11.1-8, 11.1-10, and 11.1-12, SCC # 3-05-002-61,-62,-63)
(AP-42 Updated 12/2000)

Emission (tons/yr) = Throughput (tons/hr) x Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs

Appendix A: Emission Calculations
Potential Emissions
From the Unpaved Roads (Fugitive Emissions)

Company Name: W.C. Hargis and Son, Inc.
Address City IN Zip: 806 West Hendrix, Brazil, IN 47834
FESOP: 021-15719-05158
Reviewer: ERG/YC
Date: March 25, 2002

1. Emission Factors:

According to AP42, Chapter 13.2.2 - Unpaved Roads, the PM emission factors of the unpaved roads can be estimated from the following equation:

$$E = \frac{k \times (s/12)^a \times (w/3)^b}{(M/0.2)^c}$$

where:

E = emission factor (lb/vehicle mile traveled)	
s = surface material silt content (%) =	4.8 %
W = mean vehicle weight (tons)	
M = surface material moisture content (%) =	3 %
k = empirical constants =	10 for PM and 2.6 for PM10
a = empirical constant =	0.8
b = empirical constant =	0.5 for PM and 0.4 for PM10
c = empirical constant =	0.4 for PM and 0.3 for PM10

2. Emissions From the Tri-axle Trucks:

Mean Vehicle weight (W) =	25 tons	
Annual Traveled Mileage =	6.5 trip/hr x 0.0568 mile/roundtrip x 8760 hr/yr =	3234.2 miles/yr

PM Emission Factor =	$\frac{10 \times (4.8/12)^{0.8} \times (25/3)^{0.5}}{(3/0.2)^{0.4}}$	=	4.69 lbs/mile
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PM10 Emission Factor =	$\frac{2.6 \times (4.8/12)^{0.8} \times (25/3)^{0.4}}{(3/0.2)^{0.3}}$	=	1.29 lbs/mile
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Potential PM Emissions =	3234.2 mile/yr x 4.69 lbs/mile x 1 ton/2000 lbs =	7.59 tons/yr
Potential PM10 Emissions =	3234.2 mile/yr x 1.29 lbs/mile x 1 ton/2000 lbs =	2.09 tons/yr

3. Emissions From the Front End Loaders:

Mean Vehicle weight (W) =	7.5 tons	
Annual Traveled Mileage =	22 trip/hr x 0.04 mile/roundtrip x 8760 hr/yr =	7708.8 miles/yr

PM Emission Factor =	$\frac{10 \times (4.8/12)^{0.8} \times (7.5/3)^{0.5}}{(3/0.2)^{0.4}}$	=	2.57 lbs/mile
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PM10 Emission Factor =	$\frac{2.6 \times (4.8/12)^{0.8} \times (7.5/3)^{0.4}}{(3/0.2)^{0.3}}$	=	0.80 lbs/mile
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Potential PM Emissions =	7708.8 mile/yr x 5.14 lbs/mile x 1 ton/2000 lbs =	9.91 tons/yr
Potential PM10 Emissions =	7708.8 mile/yr x 1.39 lbs/mile x 1 ton/2000 lbs =	3.08 tons/yr

4. Total Uncontrolled Emissions:

Potential PM Emissions =	7.59 tons/yr + 9.91 tons/yr =	17.5 tons/yr
Potential PM10 Emissions =	2.09 tons/yr + 3.08 tons/yr =	5.2 tons/yr

Appendix A: Emission Calculations
Potential Emissions
From the Conveying and Handling Process (Insignificant Activities)

Company Name: W.C. Hargis and Son, Inc.
Address City IN Zip: 806 West Hendrix, Brazil, IN 47834
FESOP: 021-15719-05158
Reviewer: ERG/YC
Date: March 24, 2002

1. Emission Factors:

According to AP42, Chapter 13.2.4 - Aggregate Handling and Storage Piles, the PM and PM10 emission factors for aggregate handling process can be estimated by the following equation:

$$Ef = \frac{.0032 \times (U/5)^{1.3} \times k}{(M/2)^{1.4}}$$

where:

Ef = Emission Factor (lbs/ton)	
k = Particle size multiplier =	1 for PM and 0.35 for PM10
U = Mean wind speed (mph) =	12 mph
M = Moisture content (%) =	5 %

Therefore,

PM Emission Factor =	0.0028 lbs/ton process
PM10 Emission Factor =	0.0010 lbs/ton process

2. Uncontrolled PM/PM10 emissions from the conveying/handling process:

Throughput Rate: 350 tons/hr

Potential PM = 350 ton/hr x 0.0028 lbs/ton x 8760 hr/yr x 1 tons/2000 lbs = **4.2 tons/yr**

Potential PM10 = 350 ton/hr x 0.0010 lbs/ton x 8760 hr/yr x 1 tons/2000 lbs = **1.5 tons/yr**